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### NOTICE OF ALLOWANCE AND FEE(S) DUE

34610

7590

08/11/2008

KED & ASSOCIATES, LLP P.O. Box 221200 Chantilly, VA 20153-1200 EXAMINER

BECK, ALEXANDER S

ART UNIT

PAPER NUMBER

2629 DATE MAILED: 08/11/2008

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/673,282	09/30/2003	Sang Jin Yun	YHK-0120	4745

TITLE OF INVENTION: METHOD AND APPARATUS FOR DRIVING PLASMA DISPLAY PANEL

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	11/12/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

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If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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								(Signature)
								(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTO]	RNEY DOCKET NO.	CONFIRMATION NO.
10/673,282	09/30/2003		Sang Jin Yun				YHK-0120	4745
TTLE OF INVENTION		ARATUS FOR DRIVING	PLASMA DISPLAY	PAN	EL 	1		
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nonprovisional	NO	\$1440	\$300		\$0	\$1740		11/12/2008
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BECK, ALE	XANDER S	2629	345-060000					
. Change of correspondence address or indication of "Fee Address" (37 IFR 1.363).  Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(1) the names of u or agents OR, alter (2) the name of a sregistered attorney 2 registered patent	For printing on the patent front page, list  the names of up to 3 registered patent attorneys agents OR, alternatively,  the name of a single firm (having as a member a gistered attorney or agent) and the names of up to registered patent attorneys or agents. If no name is ted, no name will be printed.				
PLEASE NOTE: Unl recordation as set fort (A) NAME OF ASSIG	less an assignee is ident h in 37 CFR 3.11. Comp GNEE	oletion of this form is NO	data will appear on the Tasubstitute for filing (B) RESIDENCE: (C	he pa g an a NTY	tent. If an assigned ssignment. and STATE OR CO	DUNT	RY)	cument has been filed for
lease check the appropr	iate assignee category or	categories (will not be pr	rinted on the patent):		Individual 🖵 Cor	porati	on or other private grou	up entity Government
a. The following fee(s)  Issue Fee  Publication Fee (N  Advance Order - s	<ul> <li>4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)</li> <li>A check is enclosed.</li> <li>Payment by credit card. Form PTO-2038 is attached.</li> <li>The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).</li> </ul>							
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KED & ASSOCI	ATES, LLP	BECK, ALEXANDER S		
P.O. Box 221200	P.O. Box 221200 Chantilly, VA 20153-1200			PAPER NUMBER
Chantilly, VA 201.				
			DATE MAILED: 08/11/200	8

# **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 483 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 483 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/673,282	YUN ET AL.	
Notice of Allowability	Examiner	Art Unit	
	ALEXANDER S. BECK	2629	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in this i) or other appropriate communications. This application is subjection	s application. If not included ation will be mailed in due course. <b>THIS</b>	
1. This communication is responsive to <u>communications filed</u>	<u>d 30 April 2008</u> .		
2. X The allowed claim(s) is/are 1,2,4,6-10,12-16,18 and 20-24	<u>4</u> .		
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority units a)  All b)  Some* c)  None of the: <ol> <li>Certified copies of the priority documents have</li> <li>Certified copies of the priority documents have</li> <li>Copies of the certified copies of the priority documents have</li> <li>International Bureau (PCT Rule 17.2(a)).</li> </ol> </li> <li>* Certified copies not received:</li> </ul>	re been received. re been received in Application N ocuments have been received in	o this national stage application from the	
Applicant has THREE MONTHS FROM THE "MAILING DATE' noted below. Failure to timely comply will result in ABANDON! THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4. A SUBSTITUTE OATH OR DECLARATION must be subn	MENT of this application.		
INFORMAL PATENT APPLICATION (PTO-152) which give	ves reason(s) why the oath or de-	claration is deficient.	
5. CORRECTED DRAWINGS ( as "replacement sheets") mu	ist be submitted.		
(a) $\square$ including changes required by the Notice of Draftsper	rson's Patent Drawing Review(F	PTO-948) attached	
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date	<u>_</u> .		
(b) ☐ including changes required by the attached Examiner Paper No./Mail Date			
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in			
<ol> <li>DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT</li> </ol>			
Attachment(s)	_		
1. Notice of References Cited (PTO-892)		nal Patent Application	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	Paper No./Mai	I Date	
<ol> <li>Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date <u>4/17/2008</u></li> </ol>	7. ☐ Examiner's Am	endment/Comment	
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Sta	tement of Reasons for Allowance	
of Biological Material	9.		

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### **DETAILED ACTION**

### Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on Apr. 17, 2008, has been entered.

# Information Disclosure Statement

2. The information disclosure statement filed Apr. 17, 2008, has been acknowledged and considered by the examiner. An initialed copy of the PTO-1449 is included in this correspondence.

## Allowable Subject Matter

- 3. Claims 1, 2, 4, 6-10, 12-16, 18 and 20-24 are allowed.
- 4. The following is an examiner's statement of reasons for allowance:

As to claim 1, the prior art of record fails to teach or suggest a method for driving a plasma display panel, comprising: setting a number of sustaining pulses in response to an average picture level; and setting a period of each sustaining pulse in proportion to the average picture level, the period of the sustaining pulse being obtained by increasing a duration of the high width of the sustaining pulse in proportion to the average picture level and maintaining a duration of the low width of the sustaining pulse, as claimed.

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As to claim 4, the prior art of record fails to teach or suggest a method of driving a plasma display panel, comprising: setting a number of sustaining pulses in response to an average picture level; and setting a period of each sustaining pulse in proportion to the average picture level, the period of the sustaining pulse being obtained by increasing a duration of the low width of the sustaining pulse in proportion to the average picture level and maintaining a duration of the high width of the sustaining pulse, as claimed.

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As to claim 12, the prior art of record fails to teach or suggest a method of driving a plasma display panel, comprising: setting a number of sustaining pulses in response to an average picture level; and setting a high width of the sustaining pulse in proportion to the average picture level and maintaining a duration of the low width of the sustaining pulse, as claimed.

As to claim 14, the prior art of record fails to teach or suggest a method of driving a plasma display panel, comprising: setting a number of sustaining pulses in response to an average picture level; and setting a low width of the sustaining pulse in proportion to the average picture level and maintaining a duration of the high width of the sustaining pulse, as claimed.

As to claim 16, the prior art of record fails to teach or suggest a driving apparatus for a plasma display panel, comprising: average picture level means for setting an average picture level corresponding to a video data; and period setting means for setting a period of a sustaining pulse in such a manner to be in proportion to the average picture level set by the average picture level means, the period of the sustaining pulse being obtained by increasing a duration of the high width of the

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sustaining pulse in proportion to the average picture level and by maintaining a duration of the low width of the sustaining pulse, as claimed.

As to claim 18, the prior art of record fails to teach or suggest a driving apparatus for a plasma display panel, comprising: average picture level means for setting an average picture level corresponding to a video data; and period setting means for setting a period of a sustaining pulse in such a manner to be in proportion to the average picture level set by the average picture level means, the period of the sustaining pulse being obtained by increasing a duration of the low width of the sustaining pulse in proportion to the average picture level and by maintaining a duration of the high width of the sustaining pulse, as claimed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: U.S. Patent No. 6,466,187 to Moon and U.S. Patent Publication No. 2004/0164930 by Hashimoto et al.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ALEXANDER S. BECK whose telephone number is (571)272-7765. The examiner can normally be reached on M-F, 8AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sumati Lefkowitz can be reached on (571) 272-3638. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Asb

/AMR AWAD/ Supervisory Patent Examiner, Art Unit 2629